MAJOR GOLD PRODUCERS IN CANADA

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Mineral Sciences Laboratories

May 1991

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CANMET

Objectives

The objectives of this report were:

to identify major gold producers in Canada
to collate data on annual production for major producers
to identify principal technical and operational contact people

Methodology

This report is limited to companies which had a gold output over 50 000 oz in 1989. Data were collected by consulting several handbooks, reports and journal articles (see bibliography).

For each company, the global gold production is estimated by summing, over all mines owned by the company, the product of mine production by the percent of shares owned by the company.

List of contact people was built mainly from the Randol Gold Directory (1988), and thus the information dates at least from 1988. The rest of the information and notes dates from 1989, unless specified in the text.

To facilitate the utilization of the information contained here, data on mines producing more than 50 000 oz were also included. A database of mines, with an estimate of their gold reserve, is presented to put production data into perspective. However, these estimates of reserve are rough, because both grade and probable tons are difficult to estimate (Northern Miner Magazine/June 1989).

Contents

The following pages contains:

A list of gold producers ordered by production in 1989

A list of mines ordered by production in 1989

A list of mines ordered by their estimated reserves in 1989

A list of mines by region

The database of the major gold producers in Canada

The database of the major gold mines in Canada

The database of the major gold mines outside Canada

Usage note

Changes in ownership and trades are common in this industry, therefore the information contained here will age rapidly and soon be outdated.

Acknowledgements

Dr. Guy Deschênes introduced me to the industry and commented on a draft of this document.

PRODUCERS' OUTPUT IN 1989

COMPANY	*GOLD OUTPUT*
Placer Dome Inc.	1 183 000 oz
Noranda Inc.	1 165 300 oz
Echo Bay Mines Ltd.	835 097 oz
Corona Corporation	529 800 oz
American Barrick Resources Corporation	467 900 oz
Teck Corporation	425 216 oz
Hemlo Gold Mines Inc.	378 000 oz
Lac Minerals Ltd.	370 875 oz
Cambior Inc.	225 451 oz
Giant Yellowknife Mines Ltd.	198 013 oz
Falconbridge Gold Corporation	143 200 oz
Canamax Resources Inc.	91 113 oz
Minven Gold Corporation	88 659 oz
Hope Brook Gold Inc.	81 607 oz
Minnova Inc.	76 257 oz
Dickenson Mine Ltd.	75 600 oz
Agnico-Eagle Mines Ltd.	72 004 oz
Campbell Resources Inc.	67 840 oz
Westmin Resources Ltd.	53 787 oz
Bond Gold Canada Inc.	43 461 oz
Inco Gold Company	41 000 oz

MINES' OUTPUT IN 1989

MINE	*OWNERS*	*GOLD OUTPUT*
Williams Mine (Page-Williams Mine)	Corona Corporation - 50% Teck Corporation - 50%	494 127 oz
Golden Giant Mine	Hemlo Gold Mines Inc. - 100%	378 000 oz
David Bell Mine	Teck Corporation - 50% Corona Corporation - 50%	312 190 oz
Round Mountain Mine	Echo Bay Mines Ltd. - 50% Homestake Mining Company - 25% Case,Pomeroy & Company Ltd. - 25%	286 226 oz
Campbell Mine	Placer Dome Inc. - 100%	267 876 oz
McCoy/Cove Project Mine	Echo Bay Mines Ltd. - 100%	246 768 oz
Doyon Mine	Cambior Inc. - 50% Lac Minerals Ltd. - 50%	234 692 oz
Goldstrike Mine	American Barrick R. Corp. - 100%	207 264 oz
Kidston Mine	Placer Dome - 53.1%	205 361 oz
Lupin Mine	Echo Bay Mines Ltd. - 100%	195 555 oz
Misima Mine	Placer Dome - 60.6%	151 000 oz
Dome Mine	Placer Dome Inc. - 100%	144 135 oz

MINES' OUTPUT IN 1989

MINE	*OWNERS*	*GOLD OUTPUT*
Detour Lake Mine	Placer Dome Inc. - 100%	130 080 oz
Crixas Mine	Inco Gold Company - 50%	120 000 oz
Mercur Mine	American Barrick Res. Corp. - 100%	117 536 oz
Golden Sunlight Mine	Placer Dome Inc. - 100%	111 539 oz
Bousquet (No 1)	Lac Minerals Ltd. - 100%	110 364 oz
Giant Mine & SuperCrest Mine	Giant Yellowknife Mines Ltd. - 100%	105 146 oz
Francoeur Mine	Lac Minerals Ltd. - 50% Rouyn Mining Resources Inc. - 50%	93 890 oz
Parmour No. 1	Giant Yellowknife Mines Ltd.- 100%	92 867 oz
Borealis Mine	Echo Bay Mines Ltd. - 100%	89 059 oz
Donald J. LaRonde Mine	Agnico-Eagle Mines Ltd. - 100%	84 974 oz
Macassa Division	Lac Minerals Ltd. - 100%	82 540 oz
Hope Brook Mine	Hope Brook Gold Inc. - 100%	81 607 oz
Nickel Plate Mine	Corona Corporation - 100%	79 492 oz
Robinson Mine	Echo Bay Mines Ltd. - 100%	78 828 oz

MINES' OUTPUT IN 1989

MINE	*OWNERS*	*GOLD OUTPUT*
Jolu Mine (Jolu Gold Project)	Corona Corporation - 30% Mahogany Corporation - 70%	75 722 oz
Arthur W. White Mine	Dickenson Mine Ltd. - 100%	75 000 oz
Pinson Mine	American Barrick Res. Corp. - 26.25% Rayrock Mines Inc. - 26.5% Lacana Gold Inc. - 26.25% John S. Livermore - 12% Peter Galli and D.M. Duncan - 9%	72 489 oz
Agnico-Eagle Mine and Telbel Mine	Agnico-Eagle Mines Ltd. - 100%	72 004 oz
Sigma No.2 Mine	Placer Dome - 100%	69 141 oz
Kiena Mine	Placer Dome - 100%	66 235 oz
Holt-McDermott Mine	American Barrick Res. Corp. - 100%	63 354 oz
Lake Shore Tailings Project	Lac Minerals Ltd. - 100%	63 170 oz
Valdez Creek Mine	American Barrick Res. Corp. - 23.15% Cambior Inc. - 25.9%	60 430 oz
Hoyle Pond Mine	Falconbridge Gold Corporation - 100%	58 540 oz
Big Bell Mine	Placer Dome - 37.9%	57 441 oz
Bald Mountain Mine	Placer Dome US Inc.- 100%	55 112 oz

MINES' OUTPUT IN 1989

MINE	*OWNERS*	*GOLD OUTPUT*
Blackdome Mine	MinVen Gold Corporation - 100%	53 384 oz
Renabie Gold Mine	Corona Corporation - 55% American Barrick Res. Corp. - 45%	44 519 oz
Golden Patricia Mine	Bond Gold Canada Inc. - 100%	43 461 oz
Sunnyside Mine	Echo Bay Mines Ltd. - 67%	34 909 oz
Dona Lake Gold Mine	Placer Dome Inc. - 100%	33 940 oz
Owl Creek Mine	Falconbridge Gold Corporation - 100%	19 866 oz
Stibnite Mine	MinVen gold Corporation - 50% Pioneer Metals Corporation - 50%	13 415 oz
Chimo Mine	Cambior Inc. - 50% Louvem Mines Inc. - 50%	12 286 oz

MINES' RESERVES IN 1989

MINE	*RESERVE*	*GOLD OUTPUT*
Golden Giant Mine	179 985 000 oz	378 000 oz
Goldstrike Mine	18 400 000 oz	207 264 oz
Williams Mine (Page-Williams Mine)	6 400 000 oz	494 127 oz
McCoy/Cove Project Mine	4 571 000 oz	246 768 oz
Round Mountain Mine	4 390 000 oz	286 226 oz
Campbell Mine	4 261 200 oz	267 876 oz
David Bell Mine	3 038 105 oz	312 190 oz
Misima Mine	2 268 000 oz	151 000 oz
Golden Sunlight Mine	2 006 800 oz	111 539 oz
Kidston Mine	1 588 500 oz	205 361 oz
Lupin Mine	1 345 000 oz	195 555 oz
Hope Brook Mine	1 325 966 oz	81 607 oz
Mercur Mine	1 228 400 oz	117 536 oz
Doyon Mine	1 156 400 oz	234 692 oz

MINES' RESERVES IN 1989

MINE	*RESERVE*	*GOLD OUTPUT*
Detour Lake Mine	1 153 400 oz	130 080 oz
Donald J. LaRonde Mine	1 089 750 oz	84 974 oz
Arthur W. White Mine	1 034 000 oz	75 000 oz
Kiena Mine	992 800 oz	66 235 oz
Dome Mine	992 800 oz	144 135 oz
Big Bell Mine	979 200 oz	57 441 oz
Giant Mine & SuperCrest Mine	884 461 oz	105 146 oz
Parmour No. 1	771 651 oz	92 867 oz
Macassa Division	771 630 oz	82 540 oz
Bousquet (No 1)	705 840 oz	110 364 oz
Sigma No.2 Mine	621 000 oz	69 141 oz
Pinson Mine	494 800 oz	72 489 oz
Bald Mountain Mine	462 300 oz	55 112 oz
Holt-McDermott Mine	355 074 oz	63 354 oz
Agnico-Eagle Mine and Telbel Mine	343 900 oz	72 004 oz

MINES' RESERVES IN 1989

MINE	*RESERVE*	*GOLD OUTPUT*
Golden Patricia Mine	271 000 oz	43 461 oz
Renabie Gold Mine	248 878 oz	44 519 oz
Lake Shore Tailings Project	240 000 oz	63 170 oz
Hoyle Pond Mine	190 300 oz	58 540 oz
Dona Lake Gold Mine	155 000 oz	33 940 oz
Jolu Mine (Jolu Gold Project)	148 676 oz	75 722 oz
Nickel Plate Mine	119 700 oz	79 492 oz
Stibnite Mine	114 646 oz	13 415 oz
Francoeur Mine	70 400 oz	93 890 oz
Chimo Mine	27 160 oz	12 286 oz
Blackdome Mine	25 949 oz	53 384 oz
Owl Creek Mine	20 328 oz	19 866 oz
Borealis Mine	17 000 oz	89 059 oz

GEOGRAPHICAL DISTRIBUTION OF MINES

CANADA

Newfoundland		Hope Brook
Quebec		
	Malartic	Bousquet (No 1)
	Malartic Area	Kiena
	Northwest	Agnico-Eagle and Telbel
	Rouyn/Val d'Or	Donald J. LaRonde
	Rouyn	Doyon
	Rouyn-Noranda	Francoeur
	Val d'Or	Sigma No.2
	Val d'Or	Chimo
Ontario		
	Detour Lake, Timmins	Detour Lake
	Hemlo Area	Williams
	Hemlo	Golden Giant
	Hemlo Area	David Bell
	Kirkland Lake Area	Macassa Division
	Kirkland Area	Lake Shore Tailings Project
	Pickle Lake Area	Golden Patricia
	Porcupine Area	Dome
	Red Lake area	Arthur W. White
	Red Lake Area	Campbell
	Timmins, near Pickle Lake	Dona Lake Gold
	Timmins	Parmour No. 1
	Timmins, Kirkland Lake	Holt-McDermott
	Timmins	Owl Creek
	Timmins	Hoyle Pond
	Wawa Area	Renabie Gold
Saskatchewan (La Ronge)		Jolu
British Columbia		
	Hedley	Nickel Plate
	Clinton	Blackdome
North West Territories		
	Contwoyto Lake	Lupin
	Yellowknife	Giant & SuperCrest

GEOGRAPHICAL DISTRIBUTION OF MINES

USA		
	Colorado	Sunnyside
	Idaho	Stibnite
	Idaho	Valdez Creek
	Montana	Golden Sunlight
	Nevada	Borealis
	Nevada	Bald Mountain
	Nevada	Robinson
	Nevada	Round Mountain
	Nevada	Pinson
	Nevada	McCoy/Cove Project
	Nevada, California and Utah	Goldstrike
	Utah (Salt Lake City)	Mercur
Australia		Kidston
Australia, Western		Big Bell
Brazil		Crixas
New Guinea		Misima

Agnico-Eagle Mines Ltd.

Head Office located in Toronto, Ontario. (416)947-1212

Owns Agnico-Eagle Mine (Quebec) - 100%
Telbel Mine (Quebec) - 100%
Donald J. LaRonde Mine (Quebec)- 100%

Output in 1989: 72 004 oz

Contacts:

P. Penna - President & Managing Director
B. Montgomery - Mill Superintendent (Silver Division)
Y. Sylvestre - Mill Superintendent (Gold Division)

Gold and silver production under 2 divisions.

American Barrick Resources Corporation

Head Office located in Toronto, Ontario. (416)923-9400

Owns Goldstrike Mine (USA) - 100%
Holt-McDermott Mine (Ontario) - 100%
Mercur Mine (USA) - 100%
Pinson Mine (USA) - 26.25%
Renabie Gold Mine (Ontario) - 45%
Valdez Creek Mine - (USA) 23.15%

Output in 1989: 467 900 oz

Contacts:

R.M. Smith - President
K. Thomas - Senior Vice-President, Metallurgy

Interests in 6 North American gold mines: Mercur (Utah), Goldstrike, Holt-McDermott, Camflo, Renabie, Pinson and Valdez Creek. Target to produce 565,000 oz of gold in 1990, rising to 1.1 million oz by 1992.

Bond Gold Canada Inc.

Head Office located in Vancouver, BC.

Owns Golden Patricia Mine (Ontario) - 100%

Output in 1989: 43 461 oz

Contact:

D. Molloy - Vice-President, Exploration

Company is wholly-owned subsidiary of Bond International Gold Inc. which is 65%-owned by Lac Minerals Inc. Was sold to Lac Minerals in 1989.

Cambior Inc.

Head Office located in Val d'Or, Québec.

Owns Chimo Mine (Quebec) - 50%
Doyon Mine (Quebec) - 50%
Valdez Creek Mine (USA) - 25.9%
Yvan Vézina Mill (Quebec) - 90%

Output in 1989: 225 451 oz

Contacts:

Louis Gignac - President
Richard Leclerc - Director, Mining Engineering
Gérald Veillette - Director, Mineral Processing

Société Québécoise d'Exploration Minière (SOQUEM) holds 20.33% (March 1990). Exploration for, and development of precious metals.

Campbell Resources Inc.

Head Office located in Toronto, Ontario. (416)366-5201

Owns Joe Mann Mine (Chibougameau)

Output in 1989: 67 840 oz

Contacts:

J.F. Kearney - President
J.C. Jenkins and Mr. E. Boiocchi - Vice-Presidents, Mining

A canadian-based gold mining company with interests in asbestos production.

Canamax Resources Inc.

Head Office located in Vancouver, BC. (416)364-6188

Output in 1989: 91 113 oz

Contacts:

W.D. Lenton - President
J.B. Smith - Vice-President, Mining

Amax Gold Inc. held 47.9% in December 1989. Operates 3 underground mines: Bell Creek, Kremzar and Ketza.

Corona Corporation

Head Office located in Toronto, Ontario. (418)862-2000
Other Office: Vancouver, BC.

Owns David Bell Mine (Ontario) - 50%
Jolu Mine (Saskatchewan) - 30%
Nickel Plate Mine (BC) - 100%
Williams Mine (Ontario) - 50%
Renabie Gold Mine (Ontario) - 55%

Output in 1989: 529 800 oz

Contacts:

Peter Steen - President
Chan Patel - Manager, Milling & Metallurgy
G.J. Leathley - Senior Vice-President, Operations

Leading North American gold producer. Has interests in 11 producing precious metals mines and a portfolio of gold exploration and development properties located in Canada, USA and Mexico.

Dickenson Mine Ltd.

Head Office located in Toronto, Ontario. (416)361-0402

Owns Arthur W. White Mine (Ontario) - 100%

Output in 1989: 75 600 oz

Contact:

David J. Libby - President

Gold mining company in exploration, production of limestone and limestone products; production of sodium sulphate products.

Echo Bay Mines Ltd.

Head Office located in Edmonton, Alberta. (403)429-5811
Executive Office: Denver, Colorado.

Owns Borealis Mine (USA) - 100%
Bousquet (No 1) (Quebec) - 100%
Lupin Mine (NWT) - 100%
McCoy/Cove Project Mine (USA) - 100%
Robinson Mine (USA) - 100%
Round Mountain Mine (USA) - 50%
Sunnyside Mine (USA) - 67%

Output in 1989: 835 097 oz

Contacts:

John Zigarlick - President
P. Clarke - Senior Vice-President, Operations

Major North-American gold-silver producer. Proven & probable reserve, Dec.31, 1989: 14 328 000 contained oz gold & equivalent.

Falconbridge Gold Corporation

Head Office located in Toronto, Ontario.

Owns Hoyle Pond Mine (Ontario) - 100%
Owl Creek Mine (Ontario) - 100%

Output in 1989: 143 200 oz

Contacts:

B.A. Ferguson - President
Peter Blakey - Director (Timmins)

Formed by Falconbridge Limited to acquire producing gold mines in Timmins area and to explore for gold in Canada. Falconbridge Ltd. is equally owned by Noranda Inc. and Trelleborg ÁB (Sweden).

Giant Yellowknife Mines Ltd.

Head Office located in Toronto, Ontario.

Owns Giant Mine (NWT) - 100%
SuperCrest Mine (NWT) - 100%
Parmour No 1 (Ontario) - 100%

Output in 1989: 198 013 oz

Contacts:

Robert Needham - President
R.E. Braconnier - Production Superintendent
Gary Halverson - Mill Superintendent (Yellowknife Division)
S.E. El-Alfy - General Manager (Timmins)

2 Divisions: Yellowknife and Timmins. Parmour Inc. has 50.2% interest.

Hemlo Gold Mines Inc.

Head Office located in Marathon, Ontario.

Owns Golden Giant Mine (Ontario) - 100%

Output in 1989: 378 000 oz

Noranda held 50.8% in February 1990. One of the lowest-cost gold producers in the world and one of the largest gold mines in North America.

Hope Brook Gold Inc.

Head Office located in Corner Brook, Newfoundland.

Owns Hope Brook Mine (Newfoundland) - 100%

Output in 1989: 81 607 oz

Contact:

Larry Connel - Site Superintendent

BP Canada holds 75.7% interest.

Inco Gold Company

Head Office located in Toronto, Ontario.

Owns Crixas Mine (Brazil) - 50%

Output in 1989: 41 000 oz in 1989 with target of 400 000 oz/year.

Contact:

Stephen R. Sopher - Vice-President, Exploration

Gold operations of Inco Ltd. were reorganized in 1989 to form Inco Gold Co. responsible for managing Inco's interests in gold producing properties, including Les Mines Casa Berardi (Quebec), Mineral Hill in Montana (USA) and Crixas (Brazil).

Lac Minerals Ltd.

Head Office located in Toronto, Ontario. (416)865-0722

Owns Bond Gold Mine - 100%
Doyon Mine (Quebec) - 50%
Francoeur Mine (Quebec)- 50%
Lake Shore Tailings Project (Ontario) - 100%
Macassa Division (Ontario) - 100%

Output in 1989: 370 875 oz

Contacts:

Peter Allen - President
G.H. Hope - Chief Metallurgist

Company is one of North America largest gold producers. Operates through mining & exploratoring divisions. Exploration for, and development of deposits. Lost Page-Williams Mine in August 1989 (see Teck Corporation) but acquired 65% of Bond International Gold Inc.; transaction which doubled Lac Minerals production and increased reserves.

Minnova Inc.

Head Office located in Montreal, Quebec.
Executive O.: Toronto, Ontario. (416)982-7270

Output in 1989: 76 257 oz

Contacts:

I.D. Bayer - President
J.K. Carrington - Senior Vice-President, Operations
Claude Jacob - Mill Superintendent (Lac Shortt Division)
Michel Maheux - Mill Superintendent (Lac Dufault Division)

Incorporated by amalgamation of Lac Dufault Mines Ltd., Opemiska Copper Mines Ltd. and Falconbridge Mines Quebec Ltd.

Minven Gold Corporation

Head Office located in Clinton, BC.

Owns Blackdome Mine - 100%
Stibnite Mine - 50%

Output in 1989: 88 659 oz

Contact:

Jim McCormack - Superintendent, Operations

Noranda Inc.

Head Office located in Toronto, Ontario. (416)982-7111

Owns Brunswick Mining & Smelting Corp. - 63%
Smelting Division - 100%

Output in 1989: 1 165 300 oz, Company's share consolidated production: 283 300 oz, Smelting Division: 882 000 oz.

Contacts:

D.W. Kerr - President
J. Gordon - Vice-President, Noranda Inc.
K.C. Hendrick - President, Noranda Minerals Inc.

Noranda Technology Centre:
J.H. Nantel - Head, Environment and Mining Lab.
Peter Tarassoff - Vice-President and Chief Scientist

Diversified canadian company which operates through 4 divisions: Noranda Minerals Inc. Noranda Forest Inc., Noranda Manufacturing Inc., Noranda Energy. Holds 50.1% of Hemlo Gold Mines Inc. Noranda Inc. has offered to sell all its gold assets to Hemlo Gold Mines Inc. (Financial Post, March 12, 1991). According to analysts, the transaction should benefit both parties. Hemlo is evaluating the offer.

Placer Dome Inc.

Head Office located in Vancouver, BC. (604)682-7082

Owns Bald Mountain Mine (USA) - 100%
Big Bell Mine (Australia) - 37.9%
Campbell Mine (Ontario) - 100%
Detour Lake Mine (Ontario) - 100%
Dome Mine (Ontario) - 100%
Dona Lake Gold Mine (Ontario) - 100%
Golden Sunlight Mine (USA) - 100%
Kidston Mine (Australia) - 53.1%
Kiena Mine (Quebec) - 100%
Misima Mine (New Guinea)- 60.6%
Sigma No 2 Mine (Quebec) - 100%

Output in 1989: 1 183 000 oz

Contacts:

A.J. Petrina - President
Fraser Fell - Chairman
Henry Brehaut - Senior Vice-President, Canadian Operations
D. Knight, Senior Metallurgist

One of the world's largest producers of gold with production from 15 of 19 mines operating in Canada, US, Australia, Papua-New Guinea, Chile and Mexico.

Teck Corporation

Head Office located in Vancouver, BC. (604)687-1117

Owns David Bell Mine (Ontario) - 50%
Williams Mine (Ontario) - 50%

Output in 1989: 425 216 oz

Contacts:

N.B. Keevil - Chairman and President
M.P. Lipkewich - Vice President, Mining
B. Given - Mill Superintendent

Company is metal mining & oil & gas producer; investment, finances, exploration & holding corporation. Produces zinc, copper, gold, silver, niobium & coal in 7 provinces & territories across Canada.

Westmin Resources Ltd.

Head Office located in Vancouver, BC. (604)681-2253

Output in 1989: 53 787 oz

Contact:

R.H. Ostrosser - President, Mining Division

Subsidiary of Brascade Resources Inc.(63%). Diversified natural resources. Exploration and development company with interests in precious metals, base metals, industrial minerals and coal.

Agnico-Eagle Mine and Telbel Mine

Owned by Agnico-Eagle Mines Ltd, Joutel Division - 100%.

Located in Quebec (Northwest).

Production data:

Output in 1989: 72 004 oz

Reserve in 1989: 343 900 oz - Proven 1 719 500 tons average 0.2 oz per ton gold.

Contacts:

Anton Adamcik, Gen. Manager
Gaetan Goulet, Gen. Superintendent

Allan Young, Ch. Eng.
Alain Thibault, Mill Metallurgist

Agnico-Eagle Mines owns 97.5% of Telbel. Process for gold leaching are flotation and Merrill-Crowe.

Arthur W. White Mine

Owned by Dickenson Mine Ltd., Red Lake Division - 100%.

Located in Ontario (Red Lake area).

Production data:

Output in 1989: 75 000 oz

Reserve in 1989: 1 034 000 oz contained gold.

Contacts:

Bruce Bried, Mine Manager

Rod Knopp, Mill Superintendent

Blackdome Mine

Owned by MinVen Gold Corporation - 100%.

Located in BC (Clinton).

Production data:

Output in 1989: 53 384 oz

Reserve in 1989: 25 949 oz - Proven 69 074 tons average 0.49 oz per ton gold.

Contacts:

Bill Price, General Manager
S. Roberts, Mill Superintendent

David Rennie, Ch. Geol., Ch. Eng.
Ramon Neri, Lab Manager, Metallurgist

Exploration in 1988; underground mine.

Bousquet (No 1)

Owned by Lac Minerals Ltd. - 100%.

Located in Quebec (Malartic).

Production data:

Output in 1989: 110 364 oz

Reserve in 1989: 705 840 oz - Proven 4 152 000 tons average 0.17 oz per ton gold.

Contacts:

Harrison E. Rutezki, Senior Vice-President Operations
Paul Bédard, General Manager

Paul Ahern, Mine Manager
Bennett McLauglin, Project Manager, Ch. Eng. Bousquet No.2

Underground mine. Bousquet No.2 - Commercial production anticipated in June 1990.

Campbell Mine

Owned by Placer Dome Inc. - 100%.

Located in Ontario (Red Lake Area).

Production data:

Output in 1989: 267 876 oz

Reserve in 1989: 4 261 200 oz - Proven 6 700 000 tons average 0.636 oz per ton gold.

Contacts:

Tim Manna, General Manager
John Frostiak, Mill Superintendent
T.S. Harvey, Metallurgist

T. Mackinnon, Mine Superintendent

Operated by Campbell Red Lake Mines Ltd. (1988). Process for gold leaching: Flotation, CIP and roasting.

Chimo Mine

Owned by Cambior Inc. - 50%
Louvem Mines Inc. - 50%.

Located in Quebec.

Production data:

Output in 1989: 12 286 oz

Reserve in 1989: 27 160 oz - Proven 194 000 tons average 0.14 oz per ton gold.

Contacts:

François Biron, Mine Manager

André Blais, Mill Superintendent

Producing in 1988; underground mine.

David Bell Mine

Owned by Teck Corporation - 50%
Corona Corporation - 50%.

Located in Ontario (Hemlo Area).

Production data:

Output in 1989: 312 190 oz

Reserve in 1989: 3 038 105 oz - Proven 7 115 000 tons average 0.427 oz per ton gold.

Contacts:

Ruston A. Ford, Mine Manager
Klaus Meyer, Mill Superintendent
Martin Wafforn, Mine Superintendent

Steven E. Wuschke, Ch. Eng.
Ed. Kardas, Chief Engineer

Producing (1988).

Detour Lake Mine

Owned by Placer Dome Inc. - 100%.

Located in Ontario (Detour Lake, Timmins).

Production data:

Output in 1989: 130 080 oz

Reserve in 1989: 1 153 400 oz - Proven 7 300 000 tons average 0.158 oz per ton gold.

Contacts:

John Rogers, General Manager
T. Mann, Manager Operations
J. Stard, Mine Superintendent
Peter Dyas, Mill Superintendent

C. Lam, Senior Metallurgist
J. MacRoy, Ch. Eng.

Underground mine. Process for Cyanide control is Merrill-Crowe.

Dome Mine

Owned by Placer Dome Inc. - 100%.

Located in Ontario (Porcupine Area).

Production data:

Output in 1989: 144 135 oz

Reserve in 1989: 992 800 oz - Proven 6 800 000 tons average 0.146 oz per ton gold.

Contacts:

Robert J. Perry, General Manager
B.E. Robertson, Mine Manager
R.J. Lusk, Mine Superintendent

Paul Blythe, Mill Superintendent
J.T. Vehkala, Ch. Eng.

Underground mine and open pit.

Dona Lake Gold Mine

Owned by Placer Dome Inc. - 100%.

Located in Ontario (Timmins, near Pickle Lake).

Production data:

Output in 1989: 33 940 oz

Reserve in 1989: 155 000 oz - Proven 500 000 tons average 0.31 oz per ton gold.

Contacts:

Lyall Chapman, Project Manager, Mine Manager

Since August 1989, the mine has been surpassing its design capacity.

Donald J. LaRonde Mine

Owned by Agnico-Eagle Mines Ltd. - 100%.

Located in Quebec (Rouyn/Val d'Or).

Production data:

Output in 1989: 84 974 oz

Reserve in 1989: 1 089 750 oz - Proven 7 265 000 tons average 0.15 oz per ton gold.

Contacts:

Eberhard Scherkus, Mine Manager
Gaetan Lemaire, Mine Superintendent

Camil Prince, Mill Superintendent
Paul H. Girard, Ch. Eng.

Lac Mineral's Bousquet ore deposit is adjacent. Operated by Dumagami Mines Ltd. in 1988. Sold to Agnico-Eagle Mines Ltd.

Doyon Mine

Owned by Cambior Inc. - 50%
Lac Minerals Ltd. - 50%.

Located in Quebec (Rouyn).

Production data:

Output in 1989: 234 692 oz

Reserve in 1989: 1 156 400 oz - Proven 5 782 000 tons average 0.2 oz per ton gold.

Contacts:

Claude Mongeau, Senior manager
Daniel Vanin, Mine Manager

Marquis Gagnon, Mine Superintendent
Gilles Silion, Ch. Geol.

Considered the Canada's largest open pit gold mine. Process for gold leaching is CIP.

Francoeur Mine

Owned by Lac Minerals Ltd. - 50%
Rouyn Mining Resources Inc. - 50%.

Located in Quebec (Rouyn-Noranda).

Production data:

Output in 1989: 93 890 oz

Reserve in 1989: 70 400 oz - Probable 352 000 tons average 0.2 oz per ton gold.

Contacts:

Ed Legault, VP Mines

Expansion under way (The Northern Miner Magazine/June 1989).

Giant Mine & SuperCrest Mine

Owned by Giant Yellowknife Mines Ltd., Yellowknife Division - 100%.

Located in NWT (Yellowknife).

Production data:

Output in 1989: 105 146 oz

Reserve in 1989: 884 461 oz - Proven 3 193 000 tons average 0.277 oz per ton gold including 798 661 oz at Giant Mine.

Contacts:

Ken Blower, General Manager
J.S. McAlpine, Mine Manager

A.A. Inch, Mine Geol.
S. El. Alfy, Ch. Eng.

Producing (1988); Giant Mine produces byproduct arsenic trioxide. Supercrest Mine is adjacent to Giant Mine.

Golden Giant Mine

Owned by Hemlo Gold Mines Inc. - 100%.

Located in Ontario (Hemlo).

Production data:

Output in 1989: 378 000 oz

Reserve in 1989: 179 985 000 oz - Proven 16 900 000 tons average 10.65 oz per ton gold.

Contacts:

Walter Segsworth, Mine Manager
Howie Stoughton - Mine Superintendent

Ernie Goodwin, Chemist

Underground mine, 16 years mine life.

Golden Patricia Mine

Owned by Bond Gold Canada Inc. - 100%.

Located in Ontario (Pickle Lake Area).

Production data:

Output in 1989: 43 461 oz, 76 000 anticipated in 1990.

Reserve in 1989: 271 000 oz gold

Contacts:

Rick Hepp, On-site Project Manager

Bob Bruce, Ch. Eng.

Producing (1988). Operating better than expected (The Northern Miner Magazine/June 1989).

Holt-McDermott Mine

Owned by American Barrick Resources Corporation - 100%.

Located in Ontario (Timmins, Kirkland Lake).

Production data:

Output in 1989: 63 354 oz

Reserve in 1989: 355 074 oz - Proven and probable 2 573 000 tons average 0.138 oz per ton gold.

Contacts:

Michel Sirois, Project Manager

Len Boulard, Mine Superintendent
Llyod Buckingham, Mill Superintendent

Under construction (1988); underground mine. Grade lower than projected (The Northern Miner/June 1989).

Hope Brook Mine

Owned by Hope Brook Gold Inc. - 100%.

Located in Newfoundland.

Production data:

Output in 1989: 81 607 oz

Reserve in 1989: 1 325 966 oz - Proven 11 237 000 tons average 0.118 oz per ton gold.

Owned by BP Canada Inc., BP Resources Canada Ltd. and operated by Hope Brook Gold Inc. (1988).

Hoyle Pond Mine

Owned by Falconbridge Gold Corporation - 100%.

Located in Ontario (Timmins).

Production data:

Output in 1989: 58 540 oz

Reserve in 1989: 190 300 oz - Proven 335 624 tons average 0.567 oz per ton gold.

Contacts:

See Owl Creek Mine

Adjacent to Owl Creek Mine.

Jolu Mine (Jolu Gold Project)

Owned by Corona Corporation - 30%
Mahogany Corporation - 70%.

Located in Saskatchewan (La Ronge).

Production data:

Output in 1989: 75 722 oz

Reserve in 1989: 148 676 oz - Proven 337 900 tons average 0.44 oz per ton gold.

Contacts:

Barry Nelson, Mine Superintendent

John Kazakoff, Mill Superintendent

Underground mine. Operating better than expected (The Northern Miner Magazine/June 1989).

Kiena Mine

Owned by Placer Dome - 100%.

Located in Quebec (Malartic Area).

Production data:

Output in 1989: 66 235 oz

Reserve in 1989: 992 800 oz - Proven 7 300 000 tons average 0.136 oz per ton gold.

Contacts:

Ernie Krisko, Mine Manager

Rénald Lemieux, Mill Metallurgist
Roger Lacerte, Ch. Eng.

Operated by Kiena Gold Mines Ltd. (1988). Process for gold leaching is carbon-in-pulp (CIP).

Lake Shore Tailings Project

Owned by Lac Minerals Ltd. - 100%.

Located in Ontario (Kirkland Area).

Production data:

Output in 1989: 63 170 oz

Reserve in 1989: 240 000 oz - Proven 3 000 000 tons average 0.08 oz per ton gold.

Contacts:

Peter A. Allen, President

Lupin Mine

Owned by Echo Bay Mines Ltd. - 100%.

Located in NWT (Contwoyto Lake).

Production data:

Output in 1989: 195 555 oz

Reserve in 1989: 1 345 000 contained oz gold & equivalent.

Contacts:

Jerry McCrank, General Manager
Marv Walker, General Superintendent
Ron Devin, Mine Superintendent

Kiedock Kim, Ed Wong, Mill Metallurgists
Hugh Wilson, Ch. Env. Affairs (Edmonton)

Underground mine. Process for gold leaching is CIP.

Macassa Division

Owned by Lac Minerals Ltd. - 100%.

Located in Ontario (Kirkland Lake Area).

Production data:

Output in 1989: 82 540 oz

Reserve in 1989: 771 630 oz - Proven 1 513 000 tons average 0.51 oz per ton gold.

Contacts:

Bill Glover, Mine Manager

Art Pervik, Mine Superintendent
Len Robinson, Mill Superintendent

Underground mine. Process for gold leaching is CIP.

Nickel Plate Mine

Owned by Corona Corporation - 100%.

Located in BC (Hedley).

Production data:

Output in 1989: 79 492 oz

Reserve in 1989: 119 700 oz - Proven 1 575 000 tons average 0.076 oz per ton gold.

Contacts:

James Walmsley, Manager Operations
Allan Bellamy, Mine Superintendent

Bill Wilkinson, Ch. Geol.
Gary Raymond, Ch. Mine Eng.

Open pit. Operating below expectations (The Northern Miner Magazine/June 1989).

Owl Creek Mine

Owned by Falconbridge Gold Corporation - 100%.

Located in Ontario (Timmins).

Production data:

Output in 1989: 19 866 oz

Reserve in 1989: 20 328 oz - Proven 193,603 ton average 0.105 oz per ton gold.

Contacts:

Peter Blakey, Mine Manager (1988)

Roy Young, Production Superintendent (1988)
Olga Mattwijenka, Metallurgist (1988)

Operated by Kidd Creek Mines - Gold Division.

Parmour No. 1

Owned by Giant Yellowknife Mines Ltd., Timmins Division - 100%.

Located in Ontario (Timmins).

Production data:

Output in 1989: 92 867 oz

Reserve in 1989: 771 651 oz - Proven 9 297 000 tons average 0.083 oz per ton gold.

Contacts:

Peter Rowlandson, General Manager, Timmins Division

Process for gold leaching are flotation and Merrill-Crowe.

Renabie Gold Mine

Owned by Corona Corporation - 55%
American Barrick Resources Corporation - 45%.

Located in Ontario.

Production data:

Output in 1989: 44 519 oz

Reserve in 1989: 248 878 oz - Proven 1 226 000 tons average 0.203 oz per ton gold.

Contacts:

Brian Eyres, Mine Manager
Nick Frenks, Plan Superintendent

Bill Lupton, Mill Metallurgist
Dave Fearn, Env. Eng.
Harry Margolis, Planning Eng.

Producing (1988).

Sigma No.2 Mine

Owned by Placer Dome - 100%.

Located in Quebec (Val d'Or).

Production data:

Output in 1989: 69 141 oz

Reserve in 1989: 621 000 oz - Proven 4 500 000 tons average 0.138 oz per ton gold.

Contacts:

J. André Carrier, General Manager
L. Tunquay, Mine Superintendent
J.-G. St-Jean, Mill Superintendent

A. Audet, Mine Geol.
Richard Quesnel, Ch. Eng.

Sigma No1 is underground; No2 is an open pit. Process for gold leaching is Merrill-Crowe.

Williams Mine (Page-Williams Mine)

Owned by Corona Corporation - 50%
Teck Corporation - 50%.

Located in Ontario (Hemlo Area).

Production data:

Output in 1989: 494 127 oz

Reserve in 1989: 6 400 000 contained oz - Proven 36 103 000 tons average 0.176 oz per ton gold.

Contacts:

A. Brown, Mine Manager

R. Mutch, Mine Superintendent
D. Barnes, Mill Superintendent

Awarded in August 1989 by Supreme Court of Canada; previously owned by Lac Mineral Ltd. Williams mine is the largest of the three mines at Hemlo. The other two are David Bell and Golden Giant.

Bald Mountain Mine

Owned by Placer Dome US Inc.- 100%.

Located in Nevada, US.

Production data:

Output in 1989: 55 112 oz

Reserve in 1989: 462 300 oz - Proven 6 700 000 tons average 0.069 oz per ton gold.

Contacts:

Art Walsh, General Manager
Greg Smith, Superintendent

Bill Schwartz, Mill Metallurgist
Mark Itso, Ch. Eng., Env. Eng.

Big Bell Mine

Owned by Placer Dome - 37.9%.

Located in Western Australia.

Production data:

Output in 1989: 57 441 oz

Reserve in 1989: 979 200 oz - Proven 9 600 000 tons average 0.102 oz per ton gold.

Development began in January 1988 and first gold was poured in February 1989.

Borealis Mine

Owned by Echo Bay Mines Ltd. - 100%.

Located in Nevada, US.

Production data:

Output in 1989: 89 059 oz

Reserve in 1989: 17 000 contained oz gold & equivalent.

Contacts:

Greg Earle, General Manager
Mike Hall, Mine Manager

Gus Valenzuela, Ch. Eng.
Jim Thompson, Lab. Manager

Producing (1988).

Crixas Mine

Owned by Inco Gold Company - 50%.

Located in Brazil.

Production data:

Output in 1989: 120 000 oz

Project operational in January 1990.

Golden Sunlight Mine

Owned by Placer Dome Inc. - 100%.

Located in Montana, US.

Production data:

Output in 1989: 111 539 oz

Reserve in 1989: 2 006 800 oz - Proven 34 600 000 tons average 0.058 oz per ton gold.

Contacts:

Jim Smolik, Manager US Operations

Don. J. Wilson, Mine Superintendent

Producing (1988).

Goldstrike Mine

Owned by American Barrick Resources Corporation - 100%.

Located in Nevada, California and Utah.

Production data:

Output in 1989: 207 264 oz

Reserve in 1989: 18 400 000 oz gold

Contacts:

C. Geary, Mine Superintendent
Keith Bettles, Ch. Mine Geol. - Nevada

K. Manning, Process Superintendent
Larry D. Kornze, Expl. Manager

Producing in Nevada and California. Feasibility study completed in Utah (1988). Operated by Barrick Goldstrike Mines Inc. (1988).

Kidston Mine

Owned by Placer Dome - 53.1%.

Located in Australia.

Production data:

Output in 1989: 205 361 oz

Reserve in 1989: 1 588 500 oz - Proven 35 300 000 tons average 0.045 oz per ton gold.

McCoy/Cove Project Mine

Owned by Echo Bay Mines Ltd. - 100%.

Located in Nevada.

Production data:

Output in 1989: 246 768 oz

Reserve in 1989: 4 571 000 contained oz gold & equivalent.

Contacts:

Donald L. Simpson, Vice-President Operations Nevada
David Naccarati, General Manager

Bruce Kuyper, Ch. Mine Geol.
Mike Jahner, Lab. Manager
Barry Olsen, Process Eng.

Producing (1988).

Mercur Mine

Owned by American Barrick Resources Corporation - 100%.

Located in Utah (Salt Lake City).

Production data:

Output in 1989: 117 536 oz

Reserve in 1989: 1 228 400 oz

Contacts:

Frank D. Wicks, VP, General Manager
Clay Landa, Mine Manager

Gordon R. Dorny, Mill Metallurgist
Robert E. Brewer, Ch. Metallurgist

Operated by Barrick Mercur Gold Mine.

Misima Mine

Owned by Placer Dome - 60.6%.

Located in New Guinea.

Production data:

Output in 1989: 151 000 oz

Reserve in 1989: 2 268 000 oz - Proven 56 700 000 tons average 0.04 oz per ton gold.

Commissioning took place in april 1989 but operational difficulties were encountered. Modifications have now been completed.

Pinson Mine

Owned by American Barrick Resources Corporation - 26.25%
Rayrock Mines Inc. - 26.5%
Lacana Gold Inc. - 26.25%
John S. Livermore - 12%
Peter Galli and D.M. Duncan - 9%.

Located in Nevada.

Production data:

Output in 1989: 72 489 oz

Reserve in 1989: 494 800 oz gold

Contacts:

H. Dan Harper, General Manager
Virgil Larios, Mine Superintendent

E.D. Kretschmer, Mine Geol.
Jack Simmons, Ch. Chem.

Producing (1988).

Robinson Mine

Owned by Echo Bay Mines Ltd. - 100%.

Located in Nevada, US.

Production data:

Output in 1989: 78 828 oz

Echo Bay Mines Ltd, based in Edmonton, has retreated from the Robinson Mine. It exchanged its 40% working interest in an 11 year gold mining lease for a royalty on future gold production and US$2 million cash from Alta Gold Co. and Magma Copper Co. (Financial Post, Dec.19/1990).

Round Mountain Mine

Owned by Echo Bay Mines Ltd. - 50%
Homestake Mining Company - 25%
Case,Pomeroy & Company Ltd. - 25%.

Located in Nevada.

Production data:

Output in 1989: 286 226 oz

Reserve in 1989: 4 390 000 contained oz gold & equivalent.

Contacts:

Donald L. Simpson, Vice-President Nevada Operations
André J. Douchane, General Manager

Vic Miller, Ch. Eng.
Bill Weiss, Ch. Chem.
Laurie Tahija, Ch. Metall. eng.
Doug Barto, Ch. Env. Eng.

Expansion project under construction by Kaiser Engineers in 1988.

Sigma No.2 Mine

Owned by Placer Dome - 100%.

Located in Quebec (Val d'Or).

Production data:

Output in 1989: 69 141 oz

Reserve in 1989: 621 000 oz - Proven 4 500 000 tons average 0.138 oz per ton gold.

Contacts:

J. André Carrier, General Manager
L. Tunquay, Mine Superintendent
J.-G. St-Jean, Mill Superintendent

A. Audet, Mine Geol.
Richard Quesnel, Ch. Eng.

Sigma No1 is underground; No2 is an open pit. Process for gold leaching is Merrill-Crowe.

Stibnite Mine

Owned by MinVen gold Corporation - 50%
Pioneer Metals Corporation - 50%.

Located in Idaho, US.

Production data:

Output in 1989: 13 415 oz

Reserve in 1989: 114 646 oz - Proven 3 017 000 tons average 0.038 oz per ton gold.

Also a project: Proven ore reserves (1988).

Sunnyside Mine

Owned by Echo Bay Mines Ltd. - 67%.

Located in Colorado.

Production data:

Output in 1989: 34 909 oz

Contacts:

Robert Stoughton,Jr., General Manager
Bill Goodhard, Mine Superintendent

Mel Jennings, Director of Metallurgical Development
Frank Bergstrom, Env. Eng.
Byron Darntonm, Ch. Metallurgist

Producing (1988).

Valdez Creek Mine

Owned by American Barrick Resources Corporation - 23.15%
Cambior Inc. - 25.9%.

Located in Idaho.

Production data:

Output in 1989: 60 430 oz

Reserve in 1989: 4 530 100 cubic yards

Contacts:

John Lawrence, President

Open pit mine. Mining operations were suspended in October 1989 and placed on a care and maintenance basis, pending a recovery in gold prices.

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